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PATENT COOPERATION TREATY

PCT

REC'D 2 0 OCT 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTA WILFITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or a	gent's file reference			·			
Applicant's or agent's file reference E 1061.0		FOR FURTHER A		PCT/IPEA/416			
International application No.		International filing de	ate (day/month/year)	Priority date (day/month/year)			
PCT/NO2004/000186		124.06.2004		07.07.2003			
International Patent Classification (IPC) or national clas			and IPC	07.07.2003			
C01B 033	/107						
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Applicant							
Elkem AS	A et al	·		_			
1. This repo	ort in the later of						
Authority under Article 35 and transmitted to the applicant according to Article 36							
2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
3. This repo	ort is also accompan	ied by ANNEXES, comprisi	ng:				
а.	7						
	cheete of	icant and to the Internationa	l Bureau) a total of	sheets, as follows:			
	and/or sl	the description, claims and/eneets containing rectifications	or drawings which have s authorized by this Aut	be been amended and are the basis of this report thority (see Rule 70.16 and Section 607 of the			
	Adminis sheets w	trative Instructions).		services Rule 70.10 and Section 607 of the			
	beyond t	he disclosure in the internation	, but which this Authori onal application as filed	ity considers contain an amendment that goes l, as indicated in item 4 of Box No. I and the			
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0. <u> </u>	(sent to the Inter	national Bureau only) a total	of (indicate type and m	umber of electronic carrier(s))			
				and/or tables related thereto, in electronic ce Listing (see Section 802 of the			
4. This repor		ns relating to the following it					
⊠ ^B	ox No. I Bas	sis of the report	ems:				
☐ B		ority					
□ B		<u>₹</u>	n with regard to novelty, inventive step and industrial applicability				
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	app	soned statement under Articl licability; citations and explatain documents cited	e 35(2) with regard to r nations supporting such	novelty, inventive step or industrial			
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ate of submission	of the demand		Date of 1				
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orm PCI/IPEA/4(9 (cover sheet) (Ap	ril 2005) .	<u> 10. +46</u>	8 782 25 00			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000186

Box	No. I	Basis of the report				
1. With regard to the language, this report is based on:						
	\boxtimes	the international application in the language in which it was filed				
		a translation of the international application into which is the language of a translation furnished for the purposes of:				
		international search (Rules 12.3(a) and 23.1(b))				
		publication of the international application (Rule 12.4(a))				
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))				
2.	jurnist	regard to the elements of the international application, this report is based on (replacement sheets which have been need to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" to an annexed to this report):				
	\boxtimes	the international application as originally filed/furnished				
		the description:				
		pages as originally filed/furnished				
		pages* received by this Authority on				
		pages* received by this Authority on				
	Ш	the claims:				
		pages as originally filed/furnished				
		pages* as amended (together with any statement) under Article 19				
		pages* received by this Authority on				
		pages* received by this Authority on				
	Ш	the drawings:				
		pages as originally filed/furnished				
		pages* received by this Authority on pages*				
		received by this Faulionity on				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.	Ш	The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
*	* If item 4 applies, some or all of those sheets may be marked "superseded."					
Form		PEA/409 (Box No. D. (April 2005)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000186

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
5	citations and explanations supporting such statement

1. Statement

			•
Novelty (N)	Claims	<u>1-6, 9-19</u>	YES
	Claims	7.8	NO NO
Inventive step (IS)	Claims	1-6, 12-19	YES
	Claims	7-11	NO NO
Industrial applicability (IA)	Claims	1-19	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Cited document:

D1: US4247528

The invention according to claim 7 relates to silicon characterized in that it contains between 30 and 10 000 ppm chromium, the remaining except for normal impurities being silicon.

D1 discloses methods for producing silicon by reducing silica in a high temperature furnace. In table 3 the first silicon produced contains 290 ppm chromium.

Consequently, claims 7 and 8 lacks novelty in view of D1.

The invention according to claims 9-11 differs from the silicon in D1 in the way of mixing the silicon with chromium.

The effect of this difference is not described in the description. According to the description, it is the presence of chromium in the silicon that solves the problem of the invention, not the way of mixing it with silicon. Numerous alternatives of mixing/adding chromium to the silicon are disclosed but no effects and advantages of the specific ways are described. A problem is therefore not solved, and a technical effect is missing. The invention according to claims 9-11 is consequently considered to lack an inventive step.